

Modulating the Permeability of a Physiological Barrier With an Agent that Modulates Tyrosine Phosphorylation

ABSTRACT

Permeability of the blood-brain barrier and other physiological barriers can be modulated by the degree of tyrosine phosphorylation of proteins. Agents which promote tyrosine protein dephosphorylation reduce the permeability of the blood-brain barrier and those which promote phosphorylation increase permeability. Increasing blood-brain barrier permeability is useful in delivering drugs having a desired effect upon the central nervous system; decreasing blood-brain barrier permeability and other physiological barrier permeability is useful in preventing undesired compounds reaching the CNS and in certain clinical conditions.